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**1  Interactive Editing Systems: Part II**                                     ■
Norman Meyrowitz, Andries van Dam
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available: 🅰 pdf(9.17 MB)     Additional Information: full citation, references, citings, index terms

**· 2  A cost-benefit decision model: analysis, comparison amd selection of data management**                                     ■
Stanley Y. W. Su, Jozo Dujmovic, D. S. Batory, S. B. Navathe, Richard Elnicki
September 1987 **ACM Transactions on Database Systems (TODS)**, Volume 12 Issue 3

Full text available: 🅰 pdf(3.29 MB)      Additional Information: full citation, abstract, references, citings, index terms

This paper describes a general cost-benefit decision model that is applicable to the evaluation, comparison, and selection of alternative products with a multiplicity of features, such as complex computer systems. The application of this model is explained and illustrated using the selection of data management systems as an example. The model has the following features: (1) it is mathematically based on an extended continuous logic and a theory of complex criteria; (2) the decisi ...

**3  Query processing in a multimedia document system**                                     ■
Elisa Bertino, Fausto Rabbiti, Simon Gibbs
January 1988 **ACM Transactions on Information Systems (TOIS)**, Volume 6 Issue 1

Full text available: 🅰 pdf(2.94 MB)      Additional Information: full citation, abstract, references, citings, index terms, review

Query processing in a multimedia document system is described. Multimedia documents are information objects containing formatted data, text, image, graphics, and voice. The query language is based on a conceptual document model that allows the users to formulate queries on both document content and structure. The architecture of the system is outlined, with focus on the storage organization in which both optical and magnetic devices can coexist. Query processing and the different strategies ...

**4  Version models for software configuration management**                                     ■
Reidar Conradi, Bernhard Westfechtel
June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2

Full text available: ☒ pdf(483.54 KB)   Additional Information: full citation, abstract, references, citings, index terms

> After more than 20 years of research and practice in software configuration management (SCM), constructing consistent configurations of versioned software products still remains a challenge. This article focuses on the version models underlying both commercial systems and research prototypes. It provides an overview and classification of different versioning paradigms and defines and relates fundamental concepts such as revisions, variants, configurations, and changes. In particular, we foc ...

> **Keywords**: changes, configuration rules, configurations, revisions, variants, versions

5  From text to hypertext by indexing ■
Airi Salminen, Jean Tague-Sutcliffe, Charles McClellan
January 1995 **ACM Transactions on Information Systems (TOIS)**, Volume 13 Issue 1

Full text available: ☒ pdf(1.98 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

> A model is presented for converting a collection of documents to hypertext by means of indexing. The documents are assumed to be semistructured, i.e., their text is a hierarchy of parts, and some of the parts consist of natural language. The model is intended as a framework for specifying hypertextual reading capabilities for specific application areas and for developing new automated tools for the conversion of semistructured text to hypertext. In the model, two well-known paradigms— ...

> **Keywords**: constrained grammars, grammars, hypertext, properties, structured text, test types, text entities, transient hypergraphs

6  Commercial realtime software needs different configuation management ■
W. M. Gentleman, A. MacKay, D. A. Stewart
October 1989 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2nd International Workshop on Software configuration management**, Volume 14 Issue 7

Full text available: ☒ pdf(1.24 MB)   Additional Information: full citation, abstract, references, citings, index terms

> Arguments are presented as to why integrated, monolithic configuration management is not well suited to commercial realtime systems. An alternative approach to configuration management that over several years we have found to be effective and widely useable is described. This approach, Database and Selectors Cel (DaSC), separates treatment of versions that exist simultaneously from the evolution of those versions over time. Versions that exist simultaneousl ...

7  Proceedings of the SIGNUM conference on the programming environment for ■
development of numerical software
March 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue 1

Full text available: ☒ pdf(5.02 MB)   Additional Information: full citation

8  GAMS: a framework for the management of scientific software ■
Ronald F. Boisvert, Sally E. Howe, David K. Kahaner
December 1985 **ACM Transactions on Mathematical Software (TOMS)**, Volume 11 Issue 4

Full text available: 📄 pdf(2.83 MB)          Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>, <u>review</u>

The Guide to Available Mathematical Software (GAMS) provides a framework for both a scientist-end-user and a librarian-maintainer to deal with large quantities of mathematical and statistical software. This framework includes a classification scheme for mathematical and statistical software, a database system to manage information about this software, and both an on-line interactive consulting system and a printed catalog for providing users with access to this information. A description is ...

**9** <u>Curriculum 68: Recommendations for academic programs in computer science: a</u> ■
<u>report of the ACM curriculum committee on computer science</u>
William F. Atchison, Samuel D. Conte, John W. Hamblen, Thomas E. Hull, Thomas A. Keenan, William B. Kehl, Edward J. McCluskey, Silvio O. Navarro, Werner C. Rheinboldt, Earl J. Schweppe, William Viavant, David M. Young
March 1968 **Communications of the ACM**, Volume 11 Issue 3

Full text available: 📄 pdf(6.63 MB)          Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>

**Keywords**: computer science academic programs, computer science bibliographies, computer science courses, computer science curriculum, computer science education, computer science graduate programs, computer science undergraduate programs

**10** <u>Query evaluation techniques for large databases</u> ■
Goetz Graefe
June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: 📄 pdf(9.37 MB)          Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>, <u>review</u>

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

**Keywords**: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

**11** <u>Fast detection of communication patterns in distributed executions</u> ■
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: 📄 pdf(4.21 MB)          Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

**12** The model, language, and implementation of an object-oriented multimedia knowledge base management system

Hiroshi Ishikawa, Fumio Suzuki, Fumihiko Kozakura, Akifumi Makinouchi, Mika Miyagishima, Yoshio Izumida, Masaaki Aoshima, Yasuo Yamane
March 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 1

Full text available: pdf(3.23 MB)    Additional Information: full citation, abstract, references, citings, index terms, review

New applications such as CAD, AI, and hypermedia require direct representation and flexible use of complex objects, behavioral knowledge, and multimedia data. To this end, we have devised a knowledge base management system called Jasmine. An object-oriented approach in a programming language also seems promising for use in Jasmine. Jasmine extends the current object-oriented approach and provides the following features. Our object model is based on functional data models and well-establis ...

**13** Database Management Systems Development in the USSR

A. G. Dale
September 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 3

Full text available: pdf(1.34 MB)    Additional Information: full citation, references, citings, index terms

**14** Conference abstracts

January 1977 **Proceedings of the 5th annual ACM computer science conference**

Full text available: pdf(3.14 MB)    Additional Information: full citation, abstract, index terms

One problem in computer program testing arises when errors are found and corrected after a portion of the tests have run properly. How can it be shown that a fix to one area of the code does not adversely affect the execution of another area? What is needed is a quantitative method for assuring that new program modifications do not introduce new errors into the code. This model considers the retest philosophy that every program instruction that could possibly be reached and tested from the ...

**15** Technical reports

SIGACT News Staff
January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Full text available: pdf(5.28 MB)    Additional Information: full citation

**16** Space-Efficient Storage Management in an Attribute Grammar Evaluator

Mehdi Jazayeri, Diane Pozefsky
October 1981 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 3 Issue 4

Full text available: pdf(935.89 KB)    Additional Information: full citation, references, citings, index terms

**17** Shared responsibility: an approach to productive LAN management

Kay Sommers, Jane Hesler
October 1998 **Proceedings of the 26th annual ACM SIGUCCS conference on User services**

Full text available: pdf(405.08 KB)    Additional Information: full citation, references, index terms

**18** On the correctness of orphan management algorithms

Maurice Herlihy, Nancy Lynch, Michael Merritt, William Weihl
October 1992 **Journal of the ACM (JACM)**, Volume 39 Issue 4

Full text available: pdf(3.83 MB)     Additional Information: full citation, abstract, references, citings, index terms

In a distributed system, node failures, network delays, and other unpredictable occurences can result in orphan computations—subcomputations that continue to run but whose results are no longer needed. Several algorithms have been proposed to prevent such computations from seeing inconsistent states of the shared data. In this paper, two such orphan management algorithms are analyzed. The first is an algorithm implemented in the Argus distributed-computing system. at M ...

**Keywords**: Argus, atomic actions, avalon, camelot, input-output automata, recovery, serializability

**19** Software safety: why, what, and how

Nancy G. Leveson
June 1986 **ACM Computing Surveys (CSUR)**, Volume 18 Issue 2

Full text available: pdf(4.18 MB)     Additional Information: full citation, abstract, references, citings, index terms, review

Software safety issues become important when computers are used to control real-time, safety-critical processes. This survey attempts to explain why there is a problem, what the problem is, and what is known about how to solve it. Since this is a relatively new software research area, emphasis is placed on delineating the outstanding issues and research topics.

**20** Human-computer interface development: concepts and systems for its management

H. Rex Hartson, Deborah Hix
March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1

Full text available: pdf(7.97 MB)     Additional Information: full citation, abstract, references, citings, index terms, review

*Human-computer interface management*, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

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**21** Special issue: AI in engineering                                                              ◼
   D. Sriram, R. Joobbani
   April 1985 **ACM SIGART Bulletin**, Issue 92

   Full text available: 📄 pdf(8.79 MB)       Additional Information: full citation, abstract

   The papers in this special issue were compiled from responses to the announcement in the
   July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest
   being shown in this area is reflected in the sixty papers received from over six countries.
   About half the papers were received over the computer network.

**22** Query processing: A new way to compute the product and join of relations                      ◼
   Won Kim
   May 1980 **Proceedings of the 1980 ACM SIGMOD international conference on
            Management of data**

   Full text available: 📄 pdf(862.64 KB)     Additional Information: full citation, abstract, references, citings

   This paper presents a new method of computing the product or join of n relations in a
   paged-memory environment. The method, termed the nested-block method, is an attempt
   to take maximum advantage of available main-memory buffer space. The problem of
   finding an optimal allocation of main-memory buffer space for the nested-block method of
   scanning n relations poses a nonlinear integer-programming problem. This paper first
   describes the operation of the nested-block method, and derives correspondin ...

**23** The FINITE STRING Newsletter: Abstracts of current literature                                 ◼
   Computational Linguistics Staff
   January 1987 **Computational Linguistics**, Volume 13 Issue 1-2

   Full text available: 📄 pdf(6.15 MB) 📖     Additional Information: full citation
                        Publisher Site

**24** Curriculum recommendations for graduate professional programs in information                  ◼
   systems
   May 1972 **Communications of the ACM**, Volume 15 Issue 5

   Full text available: 📄 pdf(4.00 MB)       Additional Information: full citation, references, citings

**Keywords**: education, information analysis, information systems development, management information systems, management systems, system design, systems analysis

## 25 Three-dimensional medical imaging: algorithms and computer systems

M. R. Stytz, G. Frieder, O. Frieder
December 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 4

Full text available: pdf(7.38 MB)      Additional Information: full citation, references, citings, index terms, review

**Keywords**: Computer graphics, medical imaging, surface rendering, three-dimensional imaging, volume rendering

## 26 Rule-based optimization and query processing in an extensible geometric database system

Ludger Becker, Ralf Hartmut Güting
June 1992 **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 2

Full text available: pdf(3.35 MB)      Additional Information: full citation, abstract, references, citings, index terms, review

Gral is an extensible database system, based on the formal concept of a many-sorted relational algebra. Many-sorted algebra is used to define any application's query language, its query execution language, and its optimiztion rules. In this paper we describe Gral's optimization component. It provides (1) a sophisticated rule language—rules are transformations of abstract algebra expressions, (2) a general optimization framework under which more specific optimization algorithms can be ...

**Keywords**: extensibility, geometric query processing, many-sorted algebra, optimization, relational algebra, rule-based optimization

## 27 Special issue on knowledge representation

Ronald J. Brachman, Brian C. Smith
February 1980 **ACM SIGART Bulletin**, Issue 70

Full text available: pdf(13.13 MB)      Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

## 28 Join processing in relational databases

Priti Mishra, Margaret H. Eich
March 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 1

Full text available: pdf(4.42 MB)      Additional Information: full citation, abstract, references, citings, index terms, review

The join operation is one of the fundamental relational database query operations. It facilitates the retrieval of information from two different relations based on a Cartesian product of the two relations. The join is one of the most diffidult operations to implement

efficiently, as no predefined links between relations are required to exist (as they are with network and hierarchical systems). The join is the only relational algebra operation that allows the combining of related tuples fro ...

**Keywords**: database machines, distributed processing, join, parallel processing, relational algebra

## 29 Developing a natural language interface to complex data

Gary G. Hendrix, Earl D. Sacerdoti, Daniel Sagalowicz, Jonathan Slocum
June 1978 **ACM Transactions on Database Systems (TODS)**, Volume 3 Issue 2

Full text available: ⬛ pdf(3.13 MB)     Additional Information: full citation, abstract, references, citings, index terms

Aspects of an intelligent interface that provides natural language access to a large body of data distributed over a computer network are described. The overall system architecture is presented, showing how a user is buffered from the actual database management systems (DBMSs) by three layers of insulating components. These layers operate in series to convert natural language queries into calls to DBMSs at remote sites. Attention is then focused on the first of the insulating components, th ...

**Keywords**: database access, human engineering, intelligent interface, natural language, run-time personalization, semantic grammar

## 30 On the complexity of generating optimal plans with cross products (extended abstract)

Wolfgang Scheufele, Guido Moerkotte
May 1997 **Proceedings of the sixteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**

Full text available: ⬛ pdf(2.01 MB)     Additional Information: full citation, references, citings, index terms

## 31 Concepts in configuration management systems

Susan Dart
May 1991 **Proceedings of the 3rd international workshop on Software configuration management**

Full text available: ⬛ pdf(1.92 MB)     Additional Information: full citation, references, citings, index terms

## 32 Software reuse

Charles W. Krueger
June 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 2

Full text available: ⬛ pdf(4.96 MB)     Additional Information: full citation, abstract, references, citings, index terms

Software reuse is the process of creating software systems from existing software rather than building software systems from scratch. This simple yet powerful vision was introduced in 1968. Software reuse has, however, failed to become a standard software engineering practice. In an attempt to understand why, researchers have renewed their interest in software reuse and in the obstacles to implementing it. This paper surveys the different approaches to software reuse found in the ...

**Keywords**: abstraction, cognitive distance, software reuse

**33** Optimization techniques for queries with expensive methods

Joseph M. Hellerstein

June 1998 **ACM Transactions on Database Systems (TODS)**, Volume 23 Issue 2

Full text available: pdf(582.16 KB)     Additional Information: full citation, abstract, references, citings, index terms, review

Object-relational database management systems allow knowledgeable users to define new data types as well as new methods (operators) for the types. This flexibility produces an attendant complexity, which must be handled in new ways for an object-relational database management system to be efficient. In this article we study techniques for optimizing queries that contain time-consuming methods. The focus of traditional query optimizers has been on the choice of join methods and orders; selec ...

**Keywords**: expensive methods, extensibility, object-relational databases, predicate migration, predicate placement, query optimization

**34** Modeling the storage architectures of commercial database systems

D. S. Batory

December 1985 **ACM Transactions on Database Systems (TODS)**, Volume 10 Issue 4

Full text available: pdf(4.46 MB)     Additional Information: full citation, abstract, references, citings, index terms, review

Modeling the storage structures of a DBMS is a prerequisite to understanding and optimizing database performance. Previously, such modeling was very difficult because the fundamental role of conceptual-to-internal mappings in DBMS implementations went unrecognized. In this paper we present a model of physical databases, called the transformation model, that makes conceptual-to-internal mappings explicit. By exposing such mappings, we show that it is possible to model the storage ...

**35** Compiling nested data-parallel programs for shared-memory multiprocessors

Siddhartha Chatterjee

July 1993 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 15 Issue 3

Full text available: pdf(4.17 MB)     Additional Information: full citation, references, citings, index terms, review

**Keywords**: compilers, data parallelism, shared-memory multiprocessors

**36** Special section: Reasoning about structure, behavior and function

B. Chandrasekaran, Rob Milne

July 1985 **ACM SIGART Bulletin**, Issue 93

Full text available: pdf(5.13 MB)     Additional Information: full citation, abstract, references

The last several years' of work in the area of knowledge-based systems has resulted in a deeper understanding of the potentials of the current generation of ideas, but more importantly, also about their limitations and the need for research both in a broader framework as well as in new directions. The following ideas seem to us to be worthy of note in this connection.

**37** Supporting valid-time indeterminacy

Curtis E. Dyreson, Richard Thomas Snodgrass

March 1998 **ACM Transactions on Database Systems (TODS)**, Volume 23 Issue 1

Full text available:     Additional Information: full citation, abstract, references, citings, index

pdf(516.09 KB)                              terms

In valid-time indeterminacy it is known that an event stored in a database did in fact occur, but it is not known exactly when. In this paper we extend the SQL data model and query language to support valid-time indeterminacy. We represent the occurrence time of an event with a set of possible instants, delimiting when the event might have occurred, and a probability distribution over that set. We also describe query language constructs to retrieve informat ...

**Keywords**: SQL, TSQL2, incomplete information, indeterminacy, probabilistic information, temporal dtabase, valid-time database

**38** A survey of extensions to APL

Karl Fritz Ruehr

July 1982   **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL**, Volume 13 Issue 1

Full text available: pdf(3.57 MB)          Additional Information: full citation, abstract, references, citings, index terms

A survey of proposed extensions to the APL language is made with emphasis placed on the motivations for various proposals, the differences between them and the consequences of their adoption. Some issues of a more general nature concerning the purpose, process and direction of language extension are also discussed. An extensive bibliography is provided with annotations concerning the nature, development and influence of various authors' works. Areas of extension encompassed by the survey in ...

**39** Reducing multidatabase query response time by tree balancing

Weimin Du, Ming-Chien Shan, Umeshwar Dayal

May 1995   **ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD international conference on Management of data**, Volume 24 Issue 2

Full text available: pdf(1.15 MB)          Additional Information: full citation, abstract, references, citings, index terms

Execution of multidatabase queries differs from that of traditional queries in that sort merge and hash joins are more often favored, as nested loop join requires repeated accesses to external data sources. As a consequence, left deep join trees obtained by traditional (e.g., System-R style) optimizers for multidatabase queries are often suboptimal, with respect to response time, due to the long delay for a sort merge (or hash) join node to produce its last result after the subordinate join node ...

**40** Abstract interaction tools: a language for user interface management systems

Jan Van Den Bos

April 1988   **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 10 Issue 2

Full text available: pdf(2.45 MB)          Additional Information: full citation, abstract, references, citings, index terms, review

A language model is presented for the specification of User Interface Management Systems. The model, called the Abstract Interaction Tool (AIT) model, offers a tree-like hierarchy of interaction objects. Each object represents a subtree and can be considered as an abstract input device containing a syntax-like specification of the required input pattern. The hierarchy of specifications amounts to a system of syntactical productions with multiple control. Terminal nodes of the AIT tree repre ...

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